

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

Claim 1 (cancelled)

Claim 2 (cancelled)

Claim 3 (cancelled)

Claim 4 (currently amended): The hose of claim + 72 wherein said bonding agent comprises an adhesive, resin, plasticizer, tackifier, or solvent.

Claim 5 (currently amended). The hose of claim + 72 wherein said bonding agent comprises a thermoplastic resin.

Claim 6 (original): The hose of claim 5 wherein said thermoplastic resin is selected from the group consisting of polyamides, polyesters, polyolefins, fluoropolymers, silicones, polyvinyl chlorides, thermoplastic elastomers, and thermoplastic hot-melts.

Claim 7 (cancelled)

Claim 8 (cancelled)

Claim 9 (cancelled)

Claim 10 (cancelled)

Claim 11 (currently amended): The hose of claim + 72 wherein said bonding agent is a plasticizer, tackifier, or solvent which comprises an organic acid, a phenol, or an amine.

Claim 12 (currently amended) The hose of claim + 72 wherein:
said first reinforcement layer is spiral wound in a first winding direction around the outer core tube surface; and
said second reinforcement layer is spiral wound in a second winding direction opposite said first winding direction around said first reinforcement layer.

Claim 13 (cancelled)

Claim 14 (currently amended): The hose of claim + ~~13~~ 72 wherein:
said first yarn as spiral wound over said core tube has an outer course of filaments of said first fiber which defines a circumferential first outer reinforcement surface disposed adjacent said second reinforcement layer, substantially only said outer course of filaments of said first reinforcement layer being wetted by said bonding agent; and

said second yarn as spiral wound over said first reinforcement layer has an inner course of filaments of said second fiber which defines a circumferential second inner reinforcement surface disposed adjacent said first reinforcement layer, substantially only said inner course of filaments of said second reinforcement layer being wetted by said bonding agent.

Claim 15 (cancelled)

Claim 16 (currently amended): The hose of claim + 72 wherein said core tube is formed of one or more layers of a polymeric material selected, independently, from the group consisting of polyamides, polyesters, polyacetals, ethylene vinyl alcohol, polyoxymethylene, polyolefins, silicones, fluoropolymers, polyvinyl chloride, polyurethanes, natural and synthetic rubbers, and copolymers and blends thereof.

Claim 17 (currently amended): The hose of claim + 72 wherein said core tube comprises an innermost core tube layer of a first thermoplastic material which defines said inner core tube surface, and an outermost core tube layer of a second thermoplastic material which defines said outer core tube surface.

Claim 18 (cancelled)

Claim 19 (currently amended): The hose of claim + 74 wherein said first thermoplastic material comprises a fluoropolymer, and wherein said second thermoplastic material is selected, independently, from the group consisting of polyamides, polyolefins, polyvinyl chlorides, polyurethanes, polyesters, polyacetals, ethylene vinyl alcohol, polyoxymethylene, silicones, thermoplastic rubbers, fluoropolymers, polyolefins, and copolymers and blends thereof.

Claim 20 (currently amended): The hose of claim + 72 wherein said first fiber and said second fiber are selected, independently, from the group consisting of nylon fibers, polyester fibers, aramid fibers, polyvinyl alcohol fibers, polyvinyl acetate fibers, polyolefin fibers, polyphenylene bezobisoxazole fibers, metal wires, and blends thereof.

Claim 21 (original): The hose of claim 20 wherein said first fiber and said second fiber are the same.

Claim 22 (currently amended): The hose of claim + 72 further comprising a cover surrounding said second fiber reinforcement layer.

Claim 23 (original): The hose of claim 22 wherein said cover is formed of one or more layers of a polymeric material selected, independently, from the group consisting of polyurethanes, polyamides, polyolefins, silicones, polyesters, fluoropolymers, thermoplastic elastomers, polyvinyl chlorides, polyurethanes, natural and synthetic rubbers, and copolymers and blends thereof.

Claim 24 (original): The hose of claim 22 wherein said cover comprises an innermost cover layer of a first thermoplastic material which defines a circumferential interior cover surface, and an outermost cover layer of a second thermoplastic material which defines a circumferential exterior cover surface.

Claim 25 (cancelled)

Claim 26 (currently amended): The hose of claim ~~25~~ 75 wherein said first thermoplastic material is selected from the group consisting of polyamides, polyolefins, polyvinyl chlorides, silicones, fluoropolymers, polyurethanes, natural and synthetic rubbers, and copolymers and blends thereof, and wherein said second thermoplastic material is selected, independently, from the group consisting of polyamides, polyurethanes, polyesters, polyolefins, fluoropolymers, and copolymers and blends thereof.

Claim 27 (original): The hose of claim 22 wherein said cover has a circumferential interior cover surface and an opposing circumferential exterior cover surface, said interior cover surface being bonded to said second reinforcement layer.

Claim 28 (cancelled)

Claim 29 (cancelled)

Claim 30 (cancelled)

Claim 31 (currently amended): The hose of claim ~~29~~ 77 wherein:
said first fiber and said second fiber are the same; and
said third and said fourth fiber are the same.

Claim 32 (currently amended): The hose of claim ~~30~~ 78 wherein:
said first fiber and said second fiber are the same; and
said third and said fourth fiber are the same.

Claim 33 (withdrawn): A method of making a flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said method comprising the steps of:

- (a) providing a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;
- (b) providing a first reinforcement layer around the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber;
- (c) providing at least a second fiber reinforcement layer around said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber; and

(d) bonding said second reinforcement layer to said first reinforcement layer by a bonding agent which is applied in a flowable phase which wets only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer.

Claim 34 (withdrawn): The method of claim 33 wherein the bond between said first and said second reinforcement layer is at least about 6 pli (1.07 kg/linear cm).

Claim 35 (withdrawn): The method of claim 33 wherein said portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent in step (d) comprises between about 0.5-20% by total weight, number, or volume average of said filaments.

Claim 36 (withdrawn): The method of claim 33 wherein said bonding agent applied in step (d) is an adhesive, resin, plasticizer, tackifier, or solvent.

Claim 37 (withdrawn): The method of claim 33 wherein the viscosity of the flowable phase of the bonding agent applied in step (d) is at least about 20,000 centipoise.

Claim 38 (withdrawn): The method of claim 33 wherein said bonding agent applied in step (d) comprises a thermoplastic resin.

Claim 39 (withdrawn): The method of claim 38 wherein said thermoplastic resin is selected from the group consisting of polyamides, polyesters, polyolefins, fluoropolymers, silicones, polyvinyl chlorides, thermoplastic elastomers, and thermoplastic hot-melts.

Claim 40 (withdrawn): The method of claim 38 wherein said bonding agent further comprises an adhesion promoter compounded with said thermoplastic resin.

Claim 41 (withdrawn): The method of claim 33 wherein said bonding agent applied in step (d) comprises a first resin layer disposed adjacent said first reinforcement layer and a second resin layer different from said first resin layer disposed adjacent said second reinforcement layer.

Claim 42 (withdrawn): The method of claim 38 wherein said thermoplastic resin is filled with an electrically-conductive filler to render said resin electrically-conductive.

Claim 43 (withdrawn): The method of claim 38 wherein said thermoplastic resin and said filaments forming said first and said second reinforcement layer each are selected to be generally hydrophobic, said hose thereby being made electrically non-conductive.

Claim 44 (withdrawn): The method of claim 33 wherein said bonding agent applied in step (d) is a plasticizer, tackifier, or solvent which comprises an organic acid, a phenol, or an amine.

Claim 45 (withdrawn): The method of claim 33 wherein:

said first reinforcement layer is provided in step (b) as spiral wound in a first winding direction around the outer core tube surface; and

said second reinforcement layer is provided in step (c) as spiral wound in a second winding direction opposite said first winding direction around said first reinforcement layer.

Claim 46 (withdrawn): The method of claim 45 wherein:

said first reinforcement layer is spiral wound in step (b) from one or more ends of a first yarn comprised of filaments of at least said first fiber; and

said second reinforcement layer is spiral wound in step (c) from one or more ends of a second yarn comprised of filaments of at least said second fiber.

Claim 47 (withdrawn): The method of claim 46 wherein:

said first yarn as spiral wound in step (b) over said core tube has an outer course of filaments of said first fiber which defines a circumferential first outer reinforcement surface disposed adjacent said second reinforcement layer, substantially only said outer course of filaments of said first reinforcement layer being wetted by said bonding agent in step (d); and

said second yarn as spiral wound in step (c) over said first reinforcement layer has an inner course of filaments of said second fiber which defines a circumferential second inner reinforcement surface disposed adjacent said first reinforcement layer, substantially only said inner course of filaments of said second reinforcement layer being wetted by said bonding agent in step (d).

Claim 48 (withdrawn): The method of claim 33 wherein said core tube provided in step (a) is formed of one or more layers of a polymeric material selected, independently, from the group consisting of polyamides, polyesters, polyacetals, ethylene vinyl alcohol, polyoxymethylene, polyolefins, silicones, fluoropolymers, polyvinyl chloride, polyurethanes, natural and synthetic rubbers, and copolymers and blends thereof.

Claim 49 (withdrawn): The method of claim 33 wherein said filaments forming said first reinforcement layer and said filaments forming said second reinforcement layer each are treated with an adhesion promoter.

Claim 50 (withdrawn): The method of claim 33 wherein said core tube provided in step (a) comprises an innermost core tube layer of a first thermoplastic material which defines said inner core tube surface, and an outermost core tube layer of a second thermoplastic material which defines said outer core tube surface.

Claim 51 (withdrawn): The method of claim 50 wherein first thermoplastic material is chemically-resistant, and wherein said second polymeric material has a flexural modulus which is lower than the flexural modulus of said first polymeric material.

Claim 52 (withdrawn): The method of claim 51 wherein said first thermoplastic material comprises a fluoropolymer, and wherein said second thermoplastic material is selected, independently, from the group consisting of polyamides, polyolefins, polyvinyl chlorides,

polyurethanes, polyesters, polyacetals, ethylene vinyl alcohol, polyoxymethylene, silicones, thermoplastic rubbers, fluoropolymers, polyolefins, and copolymers and blends thereof.

Claim 53 (withdrawn): The method of claim 33 wherein said first fiber and said second fiber are selected, independently, from the group consisting of nylon fibers, polyester fibers, aramid fibers, polyvinyl alcohol fibers, polyvinyl acetate fibers, polyolefin fibers, polyphenylene bezobisoxazole fibers, metal wires, and blends thereof.

Claim 54 (withdrawn): The method of claim 53 wherein said first fiber and said second fiber are the same.

Claim 55 (withdrawn): The method of claim 33 further comprising the additional step:
(e) surrounding said second fiber reinforcement layer with a cover.

Claim 56 (withdrawn): The method of claim 55 wherein said cover of step (e) is formed of one or more layers of a polymeric material selected, independently, from the group consisting of polyurethanes, polyamides, polyolefins, silicones, polyesters, fluoropolymers, thermoplastic elastomers, polyvinyl chlorides, polyurethanes, natural and synthetic rubbers, and copolymers and blends thereof.

Claim 57 (withdrawn): The method of claim 55 wherein said cover of step (e) comprises an innermost cover layer of a first thermoplastic material which defines a circumferential interior cover surface, and an outermost cover layer of a second thermoplastic material which defines a circumferential exterior cover surface.

Claim 58 (withdrawn): The method of claim 57 wherein said first thermoplastic material has a flexural modulus which is lower than the flexural modulus of said second thermoplastic material, and wherein said outermost layer is formed of a second polymeric material which has a hardness of at least about 60 Shore A durometer.

Claim 59 (withdrawn): The method of claim 58 wherein said first thermoplastic material is selected from the group consisting of polyamides, polyolefins, polyvinyl chlorides, silicones, fluoropolymers, polyurethanes, natural and synthetic rubbers, and copolymers and blends thereof, and wherein said second thermoplastic material is selected, independently, from the group consisting of polyamides, polyurethanes, polyesters, polyolefins, fluoropolymers, and copolymers and blends thereof.

Claim 60 (withdrawn): The method of claim 55 wherein said cover of step (e) has a circumferential interior cover surface and an opposing circumferential exterior cover surface, said interior cover surface being bonded to said second reinforcement layer.

Claim 61 (withdrawn): The method of claim 33 wherein:
said first reinforcement layer is provided in step (b) as formed from one or more ends of a first yarn comprised of filaments of said first fiber, said first yarn having an outer course of

filaments of said first fiber which defines a circumferential first outer reinforcement surface disposed adjacent said second reinforcement layer, substantially only said outer course of filaments of said first reinforcement layer being wetted by said bonding agent in step (d); and

said second reinforcement layer is provided in step (c) as formed from one or more ends of a second yarn comprised of filaments of said second fiber; said second yarn as braided or wound over said first reinforcement layer having an inner course of filaments of said second fiber which defines a circumferential second inner reinforcement surface disposed adjacent said first reinforcement layer, substantially only said inner course of filaments of said second reinforcement layer being wetted by said bonding agent in step (d).

Claim 62 (withdrawn): The method of claim 33 wherein:

said first reinforcement layer is provided in step (b) as formed from one or more ends of a first yarn comprised of a blend or cord of filaments of said first fiber and a third fiber different from said first fiber; and

said second reinforcement layer is provided in step (c) as formed from one or more ends of a second yarn comprised of a blend or cord of filaments of said second fiber and a fourth fiber different from said second fiber,

said first and said second fiber being selected to be wetted in step (d) by said bonding agent, and said third and fourth fibers being selected to be substantially not wetted in step (d) by said bonding agent.

Claim 63 (withdrawn): The method of claim 33 wherein:

said first reinforcement layer is provided in step (b) as formed from one or more ends of a first yarn comprised of filaments of said first fiber, and one or more ends of a third yarn different from said first yarn comprised of filaments of a third fiber different from said first fiber; and

said second reinforcement layer is provided in step (c) as formed from one or more ends of a second yarn comprised of filaments of said second fiber, and one or more ends of a fourth yarn different from said second yarn comprised of filaments of a fourth fiber different from said second fiber,

said first and said second fiber being selected to be wetted in step (d) by said bonding agent, and said third and fourth fibers being selected to be substantially not wetted in step (d) by said bonding agent.

Claim 64 (withdrawn): The method of claim 62 wherein:

said first fiber and said second fiber are the same; and
said third and said fourth fiber are the same.

Claim 65 (withdrawn): The method of claim 63 wherein:

said first fiber and said second fiber are the same; and
said third and said fourth fiber are the same.

Claim 66 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber; and

at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber,

wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent, and

wherein the bond between said first and said second reinforcement layer is at least about 6 pli (1.07 kg/linear cm).

Claim 67 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber; and

at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber,

wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent, and

wherein said portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent comprises between about 0.5-20% by total weight, number, or volume average of said filaments.

Claim 68 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber; and

at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber,

wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent which comprises a thermoplastic resin and an adhesion promoter compounded with said thermoplastic resin, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent.

Claim 69 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

- a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

- a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber; and

- at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber,

- wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent which comprises a first resin layer disposed adjacent said first reinforcement layer and a second resin layer different from said first resin layer disposed adjacent said second reinforcement layer, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent.

Claim 70 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

- a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

- a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber; and

- at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber,

- wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent which comprises a thermoplastic resin filled with an electrically-conductive filler to render said resin electrically-conductive, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent.

Claim 71 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

- a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

- a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber; and

- at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber,

- wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent which comprises a thermoplastic resin, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent, and

wherein said thermoplastic resin and said filaments forming said first and said second reinforcement layer each are generally hydrophobic, said hose thereby being rendered electrically non-conductive.

Claim 72 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

- a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

- a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber and being spiral wound in a first winding direction around the outer core tube surface from one or more ends of a first yarn comprised of filaments of at least said first fiber; and

- at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber and being spiral wound in a second winding direction opposite said first winding direction around said first reinforcement layer from one or more ends of a second yarn comprised of filaments of at least said second fiber,

- wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent.

Claim 73 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

- a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

- a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber; and

- at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber,

- wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent, and

- wherein said filaments forming said first reinforcement layer and said filaments forming said second reinforcement layer each are treated with an adhesion promoter.

Claim 74 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

- a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface, said core tube comprising an innermost core tube layer of a chemically-resistant first thermoplastic material which defines said inner core tube surface, and an outermost core tube layer of a second thermoplastic material which defines said outer core

tube surface, said second thermoplastic material having a flexural modulus which is lower than the flexural modulus of said first thermoplastic material;

a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber; and

at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber,

wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent.

Claim 75 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed of one or more filaments of at least a first fiber;

at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed of one or more filaments of at least a second fiber; and

a cover surrounding said second fiber reinforcement layer, said cover comprising an innermost cover layer of a first thermoplastic material which defines a circumferential interior cover surface, and an outermost cover layer of a second thermoplastic material which defines a circumferential exterior cover surface, said first thermoplastic material having a flexural modulus which is lower than the flexural modulus of said second thermoplastic material, and said second thermoplastic material having a hardness of at least about 60 Shore A durometer,

wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent.

Claim 76 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed from one or more ends of a first yarn comprised of one or more filaments of at least a first fiber; and

at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed from one or more ends of a second yarn comprised of one or more filaments of at least a second fiber, and being bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent,

wherein said first yarn has an outer course of filaments of said first fiber which defines a circumferential first outer reinforcement surface disposed adjacent said second reinforcement

layer, and said second yarn has an inner course of filaments of said second fiber which defines a circumferential second inner reinforcement surface disposed adjacent said first reinforcement layer, and

wherein substantially only said outer course of filaments of said first reinforcement layer and substantially only said inner course of filaments of said second reinforcement layer is wetted by said bonding agent.

Claim 77 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed from one or more ends of a first yarn comprised of a blend or cord of one or more filaments of at least a first fiber filaments and a third fiber different from said first fiber; and

at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed from one or more ends of a second yarn comprised of a blend or cord of one or more filaments of at least a second fiber and a fourth fiber different from said second fiber,

wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent, and

wherein said first and said second fiber are selected to be wetted by said bonding agent, and said third and fourth fibers are selected to be substantially not wetted by said bonding agent.

Claim 78 (new): A flexible hose adapted for conveying fluids under pressure, said hose extending in an axial direction along a central longitudinal axis to an indefinite length, and in a radial direction circumferentially about said longitudinal axis, said hose comprising:

a core tube having a circumferential inner core tube surface and an opposing circumferential outer core tube surface;

a first reinforcement layer surrounding the outer core tube surface, said first reinforcement layer being formed from one or more ends of a first yarn comprised of one or more filaments of at least a first fiber, and one or more ends of a third yarn different from said first yarn comprised of filaments of a third fiber different from said first fiber; and

at least a second fiber reinforcement layer surrounding said first reinforcement layer, said second reinforcement layer being formed from one or more ends of a second yarn comprised of one or more filaments of at least a second fiber, and one or more ends of a fourth yarn different from said second yarn comprised of filaments of a fourth fiber different from said second fiber,

wherein said second reinforcement layer is bonded to said first reinforcement layer by a bonding agent, only a portion of the filaments of said first reinforcement layer and of said second reinforcement layer being wetted by said bonding agent, and

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wherein said first and said second fiber are selected to be wetted by said bonding agent, and said third and fourth fibers being selected to be substantially not wetted by said bonding agent.